

The reconstruction of dielectric profile of a layer for the harmonic wave case

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Abstract

The problem of reconstruction of a dielectric profile of a layer for single frequency is considered. The residual functional is constructed. The purpose of the paper is to select the frequency for which the functional becomes a more stable. It is shown that the frequency corresponds to the frequency of the minimum of the transited energy through a layer. Numerical experiments performed for ridge-shaped and complex profiles confirm correctness of the selected frequency.
